

 SPEC. SHEET No. TM-65ZT-1-00003/T-01

 DATE
 June, 2013

TADANO CARGO CRANE

# MODEL : TM-ZT653

## CRANE SPECIFICATIONS

MAXIMUM LIFTING CAPACI	TY 6,000 kg at 2.25 m (4-part line)
CRANE CAPACITY	4,900 kg at 3.1 m (4-part line)
	<ul> <li>Three-sectioned, fully hydraulic telescoping boom</li> <li>Retracted length 4.20 m</li> <li>Extended length 9.50 m</li> <li>Extending speed 5.3 m / 17 s</li> <li>Elevation Elevated by a double-acting hydraulic cylinder</li> <li>Elevating speed 1° to 82 ° / 13 s</li> <li>Boom point 2 sheaves</li> </ul>
	Aydraulic motor drivenSpur gear speed reduction, providedwith mechanical brakeSingle line pullSingle line speed64 m/min (at 4th layer)Wire ropeDiameter x length10 mm x 63 mBreaking strength73.5 kN {7,500 kgf}Construction7 x 7 + 6 x Fi(29)Hook block2 sheaves

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<u>SWING</u>	Hydraulic motor driven Worm gear speed reduction Continuous 360° full circle swing on ball bearing slew ring Automatic swing lock Swing speed 2.5 min <sup>-1</sup> {rpm}
<u>OUTRIGGERS</u>	Manually extended sliders and hydraulically extended jacks Integral with crane frame Power up and down Extended width Min. 2,250 mm Mid. 3,100 mm Max.3,900 mm
<u>HYDRAULICS</u>	Hydraulic pumpSingle gear pumpHydraulic motorsAxial piston type for winch Axial piston type for swingControl valvesMultiple control valves with integral safety valveOil tank capacityapprox. 90 L
SAFETY DEVICES	Load meter Load indicator Over-winding alarm Hook safety latch Hydraulic safety valves, check valves and holding valves Level gauge
CRANE MASS	Approx. 2,290 kg (except mounting parts)

NOTE :Operating speeds of the crane are guaranteed under the condition that the pump delivery is 85 L/min.

Load Radius	4.2m / 6.86 m Boom	Load Radius	9.5 m Boom
2.25 m and below	6,000	4.5 m and below	3,000
3.1 m	4,900	5.0 m	2,900
3.5 m	4,200	6.0 m	2,250
4.0 m	3,700	7.0 m	1,850
4.5 m	3,300	8.0 m	1,550
5.0 m	2,900	9.25 m	1,300
6.0 m	2,250		
6.61 m	2,000		

### RATED LIFTING CAPACITIES IN KILOGRAMS Crane Strength Rated Capacities

- NOTES : 1. The above numerical values of total rated loads are based on crane strength only. The total rated loads based on stability may lower than those in the above table depending on the loading conditions and the types of the chassis.
  - 2. Rated Lifting Capacities in these tables depend on condition that crane is set level on firm level ground.
  - 3. The mass of the hook (65 kg), slings and all similarly used load handling devices must be added to the mass of the load.
  - 4. For boom lengths not shown, use the rated lifting capacity of next longer boom.



#### WORKING RANGE

NOTE: The above lifting heights and boom angles are based on a straight (unladen) boom, and allowance should be made for boom deflection obtained under laden conditions.



## DIMENSIONS

## GENERAL DATA FOR SUITABLE TRUCKS

Gross vehicle mass (including crane mass)	20,000 kg or more
P.T.O. torque	- 167 N-m{17 kgf-m} min.
P.T.O. revolution	Approx. 1,700 min <sup>-1</sup> {rpm} max.
Width for crane mounting	-Approx. 920 mm min.
Frame	-Weight distribution and frame strength
	should be calculated for each truck
Frame width range (inside to outside)	-Approx. 576 to 953 mm
Frame height (ground to frame top)	Approx. 1,055 mm max.
	(Height of crane mounting base can be changed
	by combination of jack floats and crane bases)